



SYN 10/085,853

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MEROT ET AL. Examiner: R. WAX
Serial No.: 10/085,853 Group Art Unit: 1653
Filed: OCTOBER 18, 2001 Docket No.: 14138.1USD1
Title: METHOD FOR PRODUCING HEMIN PROTEINS USING PLANT
CELLS, RESULTING PROTEINS AND PRODUCTS CONTAINING
SAME

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: EV407362711US

Date of Deposit: June 10, 2004

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By:

Teresa Anderson

Name: Teresa Anderson

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(c))

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted after the mailing date of a first Office Action on-the-merits or a first Office Action after filing a Request for Continued Examination under 37 C.F.R. § 1.114 or a CPA under 37 C.F.R. § 1.53(d), but before the mailing date of: i) a final action under 37 C.F.R. § 1.113; ii) a Notice of Allowance under 37 C.F.R. § 1.311; or iii) an action that otherwise closes prosecution on the application. Enclosed is a check in the amount of \$180.00 under 37 C.F.R. § 1.17(p) for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. § 1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

06/15/2004 SSITHIB1 00000085 10085853

02 FC:1806

180.00 DP

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

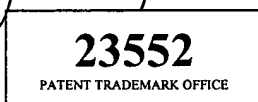
Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

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P.O. Box 2903
Minneapolis, Minnesota 55402-0903
(612) 332-5300

Date:

June 10, 2004



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FORM 1449*

INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:

14138.1USD1

Application Number:

10/085,853

Applicant: MEROT ET AL.

Filing Date: 10/18/2001

Group Art Unit: 1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Abler, M. et al., "Isolation and characterization of a genomic sequence encoding the maize Cat3 catalase gene," <i>Plant Molecular Biology</i> , Vol. 22, pp. 1031-1038 (1993)
	Aguilar-Martinez, P. et al., "Comparison of the protein and DNA approaches for the characterization of a β -globin chain variant, hemoglobin Cocody [β_{21} (B3) Asp \rightarrow Asn], in a Caucasian patient," <i>Ann Hematol</i> , Vol. 66, pp. 269-272 (1993)
	Efstratiadis, A. et al., "The Structure and Evolution of the Human β -Globin Gene Family," <i>Cell</i> , Vol. 21, pp. 653-668 (October 1980)
	Hardiest, S. et al., "Evolution of the Mammalian β -Globin Gene Cluster," <i>The Journal of Biological Chemistry</i> , Vol. 259, No. 6, pp. 3748-3756 (Issue of March 25, 1984)
	Hardison, R. et al., "Use of Long Sequence Alignments to Study the Evolution and Regulation of Mammalian Globin Gene Clusters," <i>Mol. Biol. Evol.</i> , Vol. 10, No. 1, pp. 73-102 (1993)
	Holm, L. et al., "Structural alignment of globins, phycocyanins and colicin A," <i>FEBS 11991</i> , Vol. 315, No. 3, pp. 301-306 (1993)
	"INTERNATIONAL HEMOGLOBIN INFORMATION CENTER VARIANTS LIST," <i>HEMOGLOBIN</i> , Vol. 19, Nos. 1&2, pp. 39-124 (1995)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

FORM 1449 INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number:	Application Number:
	14138.1USD1	10/085,853
	Applicant: MEROT ET AL.	
	Filing Date: 10/18/2001	Group Art Unit: 1653

		Matsunaga, E. et al., "The Rat P450 IID Subfamily: Complete Sequences of Four Closely Linked Genes and Evidence that Gene Conversions Maintained Sequence Homogeneity at the Heme-Binding Region of the Cytochrome P450 Active Site," <i>J. Mol. Evol.</i> , Vol. 30, pp. 155-169 (1990)
		Ni, W. et al., "Characterization of cDNA encoding cottonseed catalase," <i>Biochimica et Biophysica Acta</i> , Vol. 1049, pp. 219-222 (1990)
		Rodriguez Maranon, M. et al., "Analysis of the optical absorption and magnetic-circular-dichroism spectra of peanut peroxidase: electronic structure of a peroxidase with biochemical properties similar to those of horseradish peroxidase," <i>Biochem. J.</i> , Vol. 301, pp. 335-341 (1994)
		Shanan, B., "Portrait of an Allosteric Protein," <i>Biochemistry Ed. Steyer</i> , 4th Edition, W.H. Freeman & Co., New York, Chapter 7, pp. 147-180 (1983)
		Sheta, E. et al., "Evidence for a Bidomain Structure of Constitutive Cerebellar Nitric Oxide Synthase," <i>The Journal of Biological Chemistry</i> , Vol. 269, No. 21, pp. 15147-15153 (May 27, 1994)
		Souček, P. et al., "Identification of a Common Cytochrome P450 Epitope near the Conserved Heme-Binding Peptide with Antibodies Raised against Recombinant Cytochrome P450 Family 2 Proteins," <i>Biochemistry</i> , Vol. 34, pp. 16013-16021 (1995)
		Vainshtein, B. et al., "Three-dimensional structure of the enzyme catalase," <i>Nature</i> , Vol. 293, pp. 411-412 (October 1981)
		Watts, R, et al., "A hemoglobin from plants homologous to truncated hemoglobins of microorganisms," <i>PNAS</i> , Vol. 98, No. 18, pp. 10119-10124 (August 28, 2001)
		Welinder, K., "Bacterial catalase-peroxidases are gene duplicated members of the plant peroxidase superfamily," <i>Biochimica et Biophysica Acta</i> , Vol. 1080, pp. 215-220 (1991)

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PATENT TRADEMARK OFFICE

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